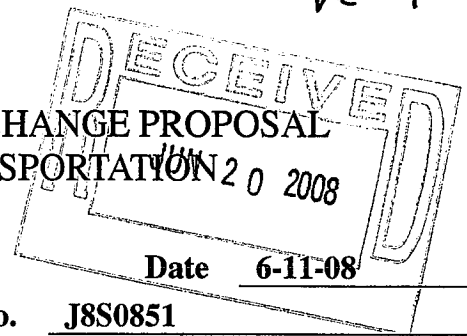


CONSTRUCTION VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION



Contract ID 071130-805
County Greene Route 266
Contractor APAC-Missouri, Inc.
Designed By APAC-Missouri, Inc.

Job No. J8S0851
Original Bid Cost \$11,889,618.21
By Doug Fronick
Phone 417-868-6700

VECP 08-54

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Proposed Change at Outer Road Connection.

This Value Engineering Proposal change is to overlay a portion of existing Chestnut and tie-in to the new outer road connection. The original design calls for removing existing Chestnut from approximately STA 653+41.69 to 655+00 and replacing with full depth asphalt. This proposal changes the original design by leaving in the existing concrete on Chestnut from the above mentioned stations and overlaying 1.75" (Highlighted in orange on the attached drawings). The overlay will match full depth asphalt on the remainder of the new outer road connection. The payment will be based on the actual tons laid, not the calculated tons. In the past MoDOT has not been accustomed to overlaying concrete with 1.75" of BP-1, but this project calls for 1.75" overlay on existing Chestnut (concrete) from STA 619+68.18 – 653+41.69. This proposal includes overlaying concrete for approximately 200 more feet. The advantage of the change is to provide MODOT with a better value in these low volume traffic areas. Header joints will be minimized since the surface material will be constructed the same as existing Chestnut overlay. Savings will be split 50%/50% (MODOT/APAC) in accordance with the Value Engineering Specifications.

The estimated net savings is \$22,208.34. See attached sheet showing detailed breakdowns of contract items.

2. Estimate of reduction in construction costs.

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

APAC-Missouri, Inc. foresees no additional costs for MODOT.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

Detailed breakdowns are attached
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

Submitted on
March 14, 2008

(date)

No change to completion date or schedule.

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

6/11/08

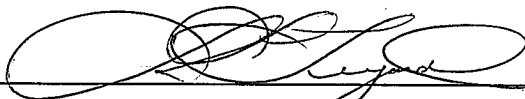
1/24/08

(date and/or dates)

Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments: I Concur that this VE is constructible and provides a product that is of good value for the taxpayer by reducing the cost of construction. In addition it will reduce the amount of time required to make the tie-in to the outer-road while providing the consistency of an 1 3/4" overlay as found on existing Rte 266 plans.



Submitted By Resident Engineer

6/26/08

Date

Comments: I concur with the Resident Engineer's recommendation.

☒ Approval
Recommended

☐ Rejection
Recommended

Ant. M. M. for Kirk Juwanas

District Engineer

7/07/08

Date

Comments:

☒ **Approval**

☐ **Rejection**

David Allen by DGB
State Construction and Materials Engineer

7-29-08
Date

Distribution: Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer
*Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

APAC-Missouri Inc.
Rt. 266 Greene County
J8S0851

Outer Road

STA. 9+78.19 --> 13+38.23

Current Original Contract					
Item	Description	Quantity	Unit	Unit Price	Total Price
2140	10" Asphaltic Concrete Pavement	1113.3	SY	\$ 29.22	\$ 32,530.63
2100	4" Type 1 Base	1113.3	SY	\$ 4.16	\$ 4,631.33
1840	15" RCP	79.89	LF	\$ 33.29	\$ 2,659.54
1950	15" Flared End	2	EA	\$ 624.24	\$ 1,248.48
Total					\$ 41,069.97

V.E. Proposal					
522.6 S.Y. 7" Bituminous Pavement					
Item	Description	Quantity	Unit	Unit Price	Total Price
1260	1 3/4" Bituminous Pavement	55	TON	\$ 42.50	\$ 2,337.50
1270	5 1/4" Bituminous Pavement	164	TON	\$ 48.90	\$ 8,019.60
2100	4" Type 1 Base	1113.3	SY	\$ 4.16	\$ 4,631.33
1840	15" RCP	79.89	LF	\$ 33.29	\$ 2,659.54
1950	15" Flared End	2	EA	\$ 624.24	\$ 1,248.48
590.7 S.Y. 1 3/4" Overlay					
Item	Description	Quantity	Unit	Unit Price	Total Price
1260	1 3/4" Bituminous Pavement Mixture PG64-22 (BP-1)	57	TON	\$ 42.50	\$ 2,422.50
2100	Underrun 4" Type 1 Base	-590.7	SY	\$ 4.16	\$ (2,457.31)
Total					\$ 18,861.63



MEMORANDUM
Missouri Department of Transportation

District 8
Springfield Construction

TO: Andy Mueller
Assistant District Engineer

CC:

FROM: Johnny Teegardin
Resident Engineer

A handwritten signature in black ink, appearing to be "Johnny Teegardin", is written over the name in the "FROM:" field.

DATE: June 26, 2008

SUBJECT: VE Proposal (#7 Revised) – Change to Rte 266 West Detour
Job No.: J8S0851
Route: 266
County: Greene

Please find enclosed for your review, comments, and recommendation/rejection and forward to Construction Division this VE proposal to change the tie-in for the Outer Road in the Southwest quadrant of the Rte 266/I-44 interchange. This change leaves the existing pavement in place from 9+78.19 to 13+38.23 and provides for a 1 ¾" overlay that is consistent with the treatment applied to existing Rte 266. The remaining tie-in will be constructed with 4" of Type 1 base and 7" total depth of bituminous pavement that is consistent with the previously approved practical design VE #3 for pavement depths.

I concur that this proposal is both constructible and provides a good value for both MoDOT and our customers and recommend approval. This VE results in an estimated cost savings of \$24,026.00 that will be split 50/50 with the contractor in accordance with Section 104.6 of the Standard Specifications.

Copy: File

jt

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☒ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

____ Revise paving template in tie-in area to use in place more of the existing roadway. _____

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

____ Proposal is not
large _____
